

EPSON®

# How Epson has Evolved Printing Technology — and 6 Ways Schools are Benefiting



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Epson has made remarkable strides in revolutionizing their inkjet printing technology. With a sharp focus on sustainability, Epson makes its solutions particularly well-suited for educational environments. By shifting from traditional laser printers to innovative heat-free inkjet technology, Epson printers consume less energy and generate less waste — two key concerns for schools and institutions aiming to cut costs and operate more responsibly.

This mini-guide explains how Epson has transformed printing technology and what it means for your K-12 school.

**Epson's commitment to sustainability is what prompted a move away from manufacturing laser printers. Continue reading to learn why.**



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# Epson's Revolutionary Inkjet Technology

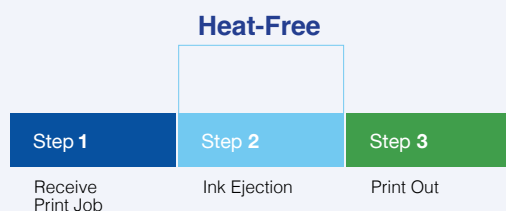
Epson's commitment to sustainability is what prompted a move away from manufacturing laser printers. Plastic is the primary ingredient in laser printer toner, which can have an impact on its environmental footprint.

Even if a laser printer vendor offers a recycling program for toner cartridges and customers take advantage of it, energy consumption is still a factor with this method of printing. Laser printers use heat to melt the plastic in toner and to fuse toner onto paper. Conversely, Epson has worked to develop new technologies that use fewer consumables. For example, Epson WorkForce® Enterprise AM Series printer ink offers a dramatically lower plastic footprint

than the powdered plastic toner used by laser printers,<sup>1</sup> which can result in up to 65% lower energy consumption vs. color laser printers.<sup>2</sup>

Epson continually seeks to innovate and enhance its products, and Epson inkjet printers powered by PrecisionCore® advanced print chip technology are a testament to this commitment. Unlike traditional laser printers, the Epson technology utilizes a Piezo element to eject ink, eliminating the need for heat in the process. It's disruptively simple, smart, and clean. With instant-dry inks that help prevent smearing, Epson printers for schools and businesses deliver crisp text and high-quality images.

## Epson Inkjet Printers



### Epson Benefits Include:



Fewer Steps  
& Parts



Faster First  
Page Out



Heat-Free  
Technology

## Laser Printers



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Epson business inkjet printers are engineered for reliable performance with the same print chips used in Epson industrial printers. The all-in-one chip design contains the printing parts of a four-color printer, meaning there are fewer maintenance parts. And PrecisionCore print heads don't require periodic replacement — they're designed to last the life of the printer.

PrecisionCore print heads are also built for productivity, delivering consistent quality with no warm-up time required, which can result in less downtime and fast first page out. They're also designed for efficiency and low power usage that helps minimize waste and decrease energy consumption.

Epson's ongoing commitment to developing printers with smart, environmentally beneficial features are not only mindful of sustainability efforts; they can help contribute to a more affordable total cost of ownership. For example, Epson Supertank printers with high-capacity ink options instead of wasteful cartridges, help eliminate millions of pounds of plastic from landfills<sup>3</sup> and millions of dollars in replacement ink costs.<sup>4</sup>

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# 6 Ways Schools are Benefiting from Epson's Advanced Printing Technology:

## 1 Epson printers deliver fast printing for busy schools

Busy teachers need to print quickly on demand, both in the classroom and the school office. Every second spent waiting is a lost teaching opportunity. While laser printers take time to warm up, the PrecisionCore Heat-Free technology in Epson inkjet printers does not require any warm-up time. That means educators don't need to wait for the printer to warm up before the first page prints.

Epson Supertank printers also come with up to 2 years of ink in the box,<sup>5</sup> so you can spend more time on what matters and less time waiting on replacement toner.

## 2 Engineered for reliability — schools don't have time for non-functional printers

Epson WorkForce Enterprise AM Series printers are engineered for reliability, quality, and speed, printing up to 3x more pages than laser printers before a service visit is needed.<sup>6</sup>

Epson WorkForce Pro desktop models deliver up to 2x the reliability of competitors.<sup>7</sup> This means educators can focus on their work without having to worry about frequent breakdowns.

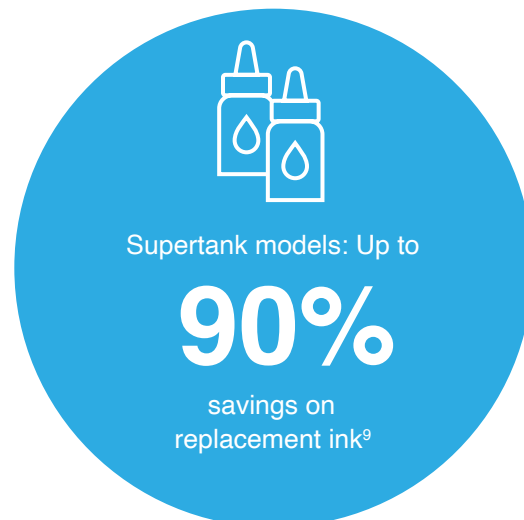
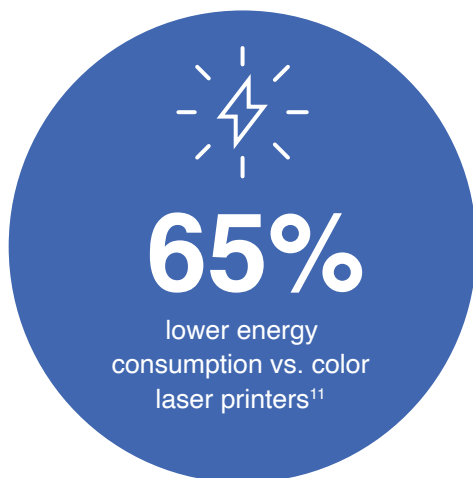


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### 3 Less waste enables schools to model sustainable values and efficiency goals

Epson business desktop printers can help minimize wasteful printing processes with:

- High-capacity ink options instead of wasteful ink cartridges to help eliminate millions of pounds of plastic from landfills.<sup>8</sup>
- Simple, smart and clean PrecisionCore® technology for heat-free efficiency and low energy consumption.
- Big savings — up to 90% on replacement ink with high-capacity Supertank models instead of ink cartridges<sup>9</sup> — thanks to smart, environmentally beneficial features for an affordable total cost of ownership.



### 4 Efficient power usage helps lighten the energy drain for educators

Epson business printers powered by PrecisionCore use low energy consumption. That helps schools save and helps demonstrate energy efficiency to students. The WorkForce Enterprise AM Series lower plastic footprint compared to the powdered plastic toner used by laser printers<sup>10</sup> can deliver up to 65% lower energy consumption vs. color laser printers.<sup>11</sup>

## 5 Vibrant print quality for better student outcomes

Studies show that most students retain information presented in color better than that in black-and-white.<sup>12</sup> By making color printing an affordable option in the classroom, library, lab, and school office, Epson printers can help you graduate from grayscale to more engaging and exciting printed materials. Epson's instant-dry DURABrite® and DURABrite Pro pigment ink provides extra-sharp text and vivid color graphics to help create positive education outcomes.

## 6 Budget-friendly printing for cost-conscious classrooms

In schools, budgets are often tight, and every dollar has a job. Teachers need to squeeze as much value as they can from their printing solutions. This is where Epson printers come into their own. Our Supertank capability brings educators up to 80% in savings on consumables with low-cost ink bottles compared to standard-capacity laser toner cartridges.<sup>13</sup>

Across all applicable Epson solutions, the Epson Brighter Futures program offers special pricing for education. Check to see which Epson products qualify for your school.



Save up to

# 80%

on consumables with  
low-cost ink bottles



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# Now Schools Can Embrace a Future of High-Quality Printing

Epson printers for education are designed with students, administrators, and educators in mind. Epson understands the value of reliability and quality for K-12 schools, and how low power consumption and waste-conscious printing can help contribute to sustainability values, and can help schools operate efficiently. We have years of experience honing

technology that delivers these capabilities in cost-efficient ways to bring high-quality printing within reach for educators on a budget.

**Learn more about how Epson has evolved printer technology by visiting [Epson's Printers for Education](#) page.**

# Endnotes

- 1 Certain pigment inks contain up to 5% plastic.
- 2 Compared to similarly featured A3 color laser printers and copiers at 51–60 ppm based on manufacturers' specifications and industry-available data as of March 2022. Actual power savings will vary by product model and usage.
- 3 Based on product and replacement ink bottle sales in North America 2015 – June 2021.
- 4 Actual savings and costs will vary considerably based on print tasks, print volumes and usage conditions. Savings and cost per ISO page are based on the cost of replacement ink bottles and the cost of enough standard cartridges to achieve the total page yields of the bottles using the MSRP (USD) and yields for Epson standard-capacity ink cartridges for similarly featured Epson consumer inkjet printers as of March 2024.
- 5 Based on average monthly document print volumes of about 150 pages (ST-C2100), 200 pages (ST-C4100, ST-M1000, ST-M3000, ST-C5000 and ST-C5500).
- 6 AM-C4000/C5000/C6000 - When compared to laser competitors in their class. Competitive data sourced from BEI – Service Cost Data as of November 2023. Compared to similarly featured competitor models (A3, Color, MFP, 40–60 ppm) launched between 1/1/2018 and 11/1/2023 with at least 250 units in BEI service population. Epson data based on internal data.  
AM-C400/C550 - When compared to laser competitors in their class. Competitive data sourced from BEI – Service Cost Data as of February 2024. Compared to similarly featured competitor models (A4, Color, MFP, 31–60 ppm) with at least 300 units in BEI service population. Epson data based on internal data.
- 7 C5890, C5390 - CALCULATED USING MEAN COPIES BEFORE FAILURE (MCBF). Competitive data sourced from BEI – Service Cost Data as of January 2024. Compared to similarly featured competitor models (A4, Color, MFP, 20–28 ppm) in the top 15 models of North American market share (based on IDC data) with at least 10 units in BEI service population. Competitors represent brands using an average of their qualifying model's MCBV. Epson data based on internal data.
- 8 Based on product and replacement ink bottle sales in North America 2015 – June 2021.
- 9 Actual savings and costs will vary considerably based on print tasks, print volumes and usage conditions. Savings and cost per ISO page are based on the cost of replacement ink bottles and the cost of enough standard cartridges to achieve the total page yields of the bottles using the MSRP (USD) and yields for Epson standard-capacity ink cartridges for similarly featured Epson consumer inkjet printers as of March 2024.
- 10 Certain pigment inks contain up to 5% plastic.
- 11 Compared to similarly featured A3 color laser printers and copiers at 51–60 ppm based on manufacturers' specifications and industry-available data as of March 2022. Actual power savings will vary by product model and usage.
- 12 <https://www.colorcom.com/research/why-color-matters>
- 13 Actual savings and costs will vary considerably based on print tasks, print volumes and usage conditions. Savings and cost per ISO page are based on the cost of replacement ink bottles and the cost of enough standard-capacity color laser toner cartridges to achieve the total page yields of the ink bottles using the manufacturers' online prices and yields for the best-selling similarly featured color laser printers, available at retail, with speeds of 40 ppm or less per industry-available data as of July 2024. Savings of up to 65% (USD) for XL-capacity color laser toner cartridges based on the same methodology.